

Title (en)

Object control method and apparatus of user device

Title (de)

Objektsteuerungsverfahren und Vorrichtung einer Benutzervorrichtung

Title (fr)

Procédé et appareil de commande d'objet de dispositif utilisateur

Publication

**EP 2778853 A3 20150121 (EN)**

Application

**EP 14159931 A 20140314**

Priority

KR 20130027600 A 20130314

Abstract (en)

[origin: EP2778853A2] An object control method and apparatus of the user device using hovering gestures are provided. The object control method includes displaying at least one object on a display screen, detecting a multi-finger hovering gesture for selecting the object on the display screen, activating a camera upon detection of the multi-finger hovering gesture, recognizing a hand in a picture input through the camera, and entering, when the hand disappears out of a viewing angle of the camera, a file transfer standby state for transmitting the selected object.

IPC 8 full level

**G06F 3/01** (2006.01); **G06F 3/03** (2006.01); **G06F 3/044** (2006.01); **G06F 3/0484** (2013.01); **G06F 3/0488** (2013.01); **H04M 1/72412** (2021.01)

CPC (source: BR EP KR RU US)

**G06F 3/011** (2013.01 - KR); **G06F 3/017** (2013.01 - BR EP KR US); **G06F 3/0304** (2013.01 - BR EP KR US); **G06F 3/044** (2013.01 - BR); **G06F 3/0484** (2013.01 - KR); **G06F 3/04842** (2013.01 - BR US); **G06F 3/0488** (2013.01 - KR US); **G06F 3/04883** (2013.01 - BR EP RU US); **G06F 3/04886** (2013.01 - RU); **G06V 40/28** (2022.01 - KR); **G06F 3/044** (2013.01 - EP US); **G06F 2203/04108** (2013.01 - EP US); **G06F 2203/04808** (2013.01 - EP US); **H04M 1/72412** (2021.01 - BR EP US); **Y02D 30/70** (2020.08 - EP US)

Citation (search report)

- [I] US 2011316790 A1 20111229 - OLLILA ELINA [FI], et al
- [I] WO 2010098050 A1 20100902 - NEC CORP [JP], et al
- [A] HIROSHI SASAKI ET AL: "HAND-MENU SYSTEM: A DEVICELESS VIRTUAL INPUT INTERFACE FOR WEARABLE COMPUTERS", JOURNAL OF CONTROL ENGINEERING AND APPLIED INFORMATICS, vol. 8, no. 2, 1 January 2006 (2006-01-01), Romania, pages 44 - 53, XP055118319, Retrieved from the Internet <URL:http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.65.5871&rep=rep1&type=pdf> [retrieved on 20140515], DOI: 10.1.1.65.5871
- [A] KAZUHIRO TERAJIMA ET AL: "Fast finger tracking system for in-air typing interface", CHI 2009 - DIGITAL LIFE, NEW WORLD: CONFERENCE PROCEEDINGS AND EXTENDED ABSTRACTS; THE 27TH ANNUAL CHI CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS, APRIL 4 - 9, 2009 IN BOSTON, USA; 20090404 - 20090409, 4 April 2009 (2009-04-04) - 9 April 2009 (2009-04-09), pages 3739 - 3744, XP058031640, ISBN: 978-1-60558-247-4, DOI: 10.1145/1520340.1520564

Cited by

EP4318186A4; EP3979046A4

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2778853 A2 20140917; EP 2778853 A3 20150121; EP 2778853 B1 20171227**; AU 2014201588 A1 20141002; AU 2014201588 B2 20190321; BR 102014006152 A2 20160223; CA 2846531 A1 20140914; CA 2846531 C 20211102; CN 104049737 A 20140917; CN 104049737 B 20190528; JP 2014179099 A 20140925; JP 6366309 B2 20180801; KR 102091028 B1 20200414; KR 20140112920 A 20140924; RU 2014109966 A 20150920; RU 2662690 C2 20180726; TW 201447646 A 20141216; TW I633460 B 20180821; US 2014282070 A1 20140918; US 9372617 B2 20160621

DOCDB simple family (application)

**EP 14159931 A 20140314**; AU 2014201588 A 20140314; BR 102014006152 A 20140314; CA 2846531 A 20140314; CN 201410095171 A 20140314; JP 2014051607 A 20140314; KR 20130027600 A 20130314; RU 2014109966 A 20140314; TW 103109521 A 20140314; US 201414211982 A 20140314